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ready for tomorrow*

# IBM Personal System/2

## IBM Personal System/2

Use this handy pocket guide as a quick and convenient source of information about IBM Personal System/2®. It provides concise descriptions of the features and benefits of every model in the family, as well as charts that let you check specifications at a glance.



**IBM**

The Bigger Picture

*Whatever your  
needs, there's an  
IBM Personal System/2  
to meet them*



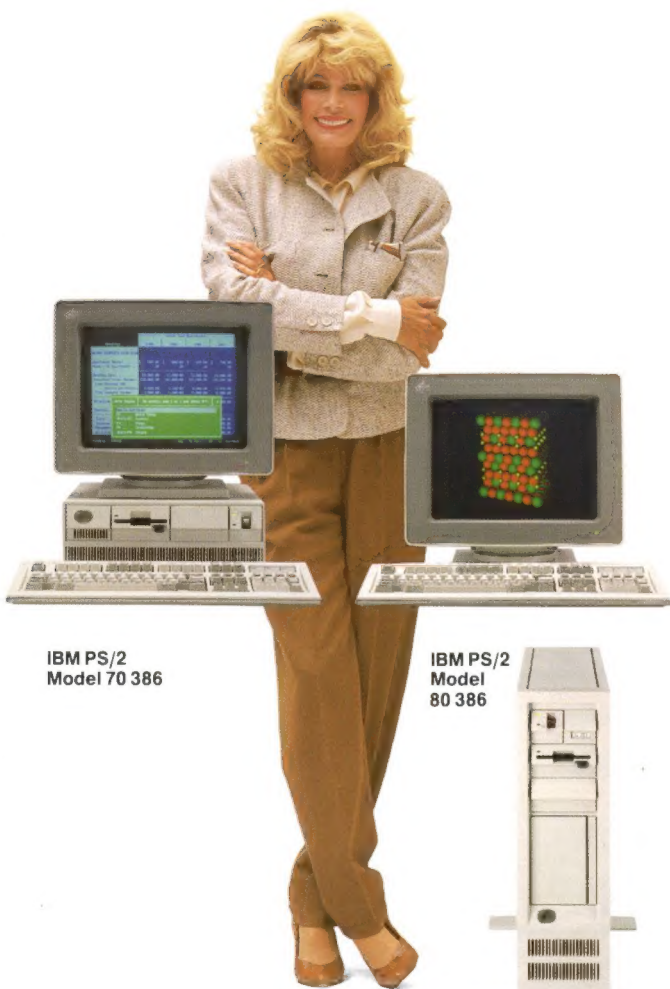
**IBM PS/2  
Model 25**  
(Model 25 with  
fixed disk option  
shown above)

**IBM PS/2  
Model 30**



**IBM PS/2  
Models 50 and  
50 Z** (Model 50 Z  
shown above)

**IBM PS/2  
Model 60**



**IBM PS/2  
Model 70 386**

**IBM PS/2  
Model  
80 386**



# Model 25

25-001, -004, -G01 and -G04

Collegiate 25-C02, -C05, -K02 and -K05

LAN Station 25-L01 and -L04

## At a glance

<b>Microprocessor</b>	8086, 8 MHz, 0 wait states, 16-bit memory data bus Optional: IBM 8087 Math Co-Processor (8 MHz)
<b>Permanent memory (ROM)</b>	64KB standard
<b>Memory (RAM)</b>	Models 25-001, -004, -G01 and -G04: 512KB standard, expandable to 640KB with memory expansion option Models 25-C02, -C05, -K02, -K05, -L01 and -L04: 640KB standard
<b>Integrated functions</b>	MultiColor Graphics Array (MCGA), serial port, parallel port, pointing device port, keyboard port, audio earphone connector
<b>System expansion</b>	One full-size (except Models 25-L01 and -L04) and one 8-inch expansion slot available
<b>Operating system</b>	DOS 3.30
<b>Storage</b>	Models 25-001, -004, -G01, -G04, -L01 and -L04: one 720KB 3.5-inch diskette drive Models 25-C02, -C05, -K02 and -K05: two 720KB 3.5-inch diskette drives Optional: second 720KB diskette drive (Models 25-001, -004, -G01, -G04, -L01 and -L04 only); 20MB fixed disk, IBM 5.25" External Diskette Drive, IBM 3363 Optical Disk Drive
<b>Text/graphics support</b>	MCGA supports existing color graphics modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 2 colors—all points addressable 16 colors—8 x 16 character box (text)
<b>Keyboard</b>	IBM Space Saving Keyboard: 84 keys, including 12 function keys; 5-foot coiled cable (Models 25-001, -004, -C02 and -C05) IBM PS/2™ Enhanced Keyboard: 101 keys, including 3 lighted mode indicators; 6-foot coiled cable (Models 25-G01, -G04, -K02, -K05, -L01 and -L04)
<b>Displays</b>	Models 25-001, -G01, -C02, -K02 and -L01: 12-inch (diagonal measurement) monochrome display Models 25-004, -G04, -C05, -K05 and -L04: 12-inch (diagonal measurement) color display
<b>Supported printers</b>	IBM Proprinter™ family, IBM Quietwriter® printers, IBM Wheelprinters, IBM Color Jetprinter
<b>Communications support</b>	IBM Token-Ring Network, IBM PC Network, IBM PC Network Baseband, 3278/79 Emulation, 5250 Emulation
<b>Power supply</b>	90-watt (Models 25-001, -G01, -C02, -K02 and -L01) or 115-watt (Models 25-004, -G04, -C05, -K05 and -L04); <sup>1</sup> 50-60 Hz; switchable between low range (90-137 VAC) and high range (180-259 VAC)
<b>Size</b>	Approx. 15" H x 12.6" W x 14.8" D (382mm x 320mm x 375mm); 31 lbs. (14 kg) monochrome unit, 36 lbs. (16 kg) color unit (LAN Station Models 25-L01 and -L04 weigh an additional 1 lb. each)

Feature	Function	Benefit
<b>Integrated design and construction</b>	Pack more capabilities into fewer components; reduce footprint; combine system and display into a single unit; accept expansion cards; use fewer internal cables and connections	Better price/performance; suitability for small or crowded spaces; simplified setup, operation and expansion; enhanced reliability as components are designed and tested to work together
<b>Simplified power system</b>	Uses only one power cable and plug; provides a convenient outlet for printer	Quick and simple setup; no need for multiple outlets; convenient movement from one location to another; neater appearance due to fewer cables
<b>IBM Space Saving Keyboard</b>	Requires less space on desktop; has 84 keys, including 12 function keys	More room on desktop for files, papers or books; simplified command entry
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>Built-in enhanced graphics and color capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus monochrome palette of 64 shades of gray	High-detail color or monochrome graphics and text; improved on-screen readability
<b>Intel 8086 microprocessor</b>	Processes data at a clock speed of 8 MHz; 0 wait states; 16-bit memory data bus	High-speed, high-performance computing
<b>64KB of permanent memory</b>	Contains BASIC language interpreter and Power-on Self-test	Built-in programming aids; quick problem identification; user convenience
<b>512KB or 640KB of memory (RAM)</b>	Provides electronic workspace to hold programs and data	Fast data processing; management of complicated tasks such as spreadsheets
<b>720KB 3.5-inch diskette drives</b>	One or two built-in diskette drives provide storage for up to 360 or 720 pages <sup>2</sup> of information; respectively	Ability to create portable and backup files
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>Fixed disk drive option</b>	Provides an additional 20MB of storage	Easy expansion of fixed disk storage capability
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Software compatibility with IBM PC line
<b>Two expansion slots</b>	Accept one full-size (except LAN Station Models 25-L01 and -L04) and one 8-inch expansion card	System growth potential to keep pace with changing needs
<b>Communications capability</b>	Allows use of Model 25 as an intelligent workstation to interface with office or school resources	Shared hardware and software; electronic mail capabilities; price/performance and productivity benefits
<b>Bolt-down feature</b>	Secures entire unit in place on table or desk	Less possibility of unauthorized removal
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

# Model 30

30-002 and -021

## At a glance

<b>Microprocessor</b>	8086, 8 MHz; 0 wait states, 16-bit memory data bus Optional: IBM 8087 Math Co-Processor (8 MHz)
<b>Permanent memory (ROM)</b>	64KB standard
<b>Memory (RAM)</b>	640KB standard
<b>Integrated functions</b>	MultiColor Graphics Array (MCGA), display port, serial port, parallel port, pointing device port, keyboard port, clock/calendar
<b>System expansion</b>	Three available expansion slots
<b>Operating system</b>	DOS 3.30
<b>Storage</b>	Model 30-002: two 720KB 3.5-inch diskette drives Model 30-021: one 720KB 3.5-inch diskette drive and one 20MB fixed disk Optional: IBM 5.25" External Diskette Drive (Model 30-021 only); IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
<b>Text/graphics support</b>	MCGA supports existing color graphics modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 2 colors—all points addressable 16 colors—8 x 16 character box (text)
<b>Keyboard</b>	101 keys, including 12 function keys; 3 lighted mode indicators; 6-foot coiled cable
<b>Supported displays</b>	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
<b>Supported printers</b>	IBM Proprinter family, IBM Quietwriter printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
<b>Communications support</b>	IBM Token-Ring Network, IBM PC Network, IBM PC Network Baseband, 3278/79 Emulation, 5250 Emulation
<b>Power supply</b>	70-watt worldwide; 50-60 Hz; internal sensing of low range (100-125 VAC) and high range (200-240 VAC)
<b>Size</b>	Approx. 4" H x 16" W x 15.6" D (102mm x 406mm x 397mm); 17.5 lbs. (8 kg)

Feature	Function	Benefit
<b>Integrated construction with three expansion slots</b>	Packs more capabilities into fewer components; uses fewer internal cables and connections; accepts expansion cards as needed	Better price/performance; enhanced reliability as components are designed and tested to work together; less potential for problems; system growth potential
<b>Streamlined design</b>	Reduces footprint; eliminates setup switches for system and displays	Easy setup, operation and expansion
<b>Built-in enhanced color and graphics capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus monochrome palette of 64 shades of gray	High-detail color or monochrome graphics and text; improved on-screen readability
<b>Intel 8086 microprocessor</b>	Processes data at a clock speed of 8 MHz; 0 wait states; 16-bit memory data bus	High-speed, high-performance computing
<b>64KB of permanent memory</b>	Contains BASIC language interpreter, Power-on Self-test and support for battery-operated clock/calendar	Built-in programming aids; quick problem identification; user convenience
<b>640KB of memory (RAM)</b>	Provides electronic workspace to hold programs and data	Fast data processing; management of complicated tasks such as spreadsheets
<b>20MB fixed disk drive</b>	Provides built-in storage for up to 10,000 pages <sup>2</sup> of information; controller integrated on fixed disk	Faster, more convenient access to programs and data than with diskettes; fixed disk does not require expansion slot
<b>720KB 3.5-inch diskette drives</b>	One or two built-in diskette drives provide storage for up to 360 or 720 pages <sup>2</sup> of information, respectively	Ability to create portable and backup files
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Software compatibility with IBM PC line
<b>Communications capability</b>	Intelligent workstation, interfaces with office resources	Shared hardware and software; electronic mail capabilities; price/performance and productivity benefits
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys, numeric keypad and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service



# Model 50

50-021

# Model 50 Z

50-031 and -061

## At a glance

<b>Microprocessor</b>	80286, 10 MHz, 1 wait state (Model 50-021) or 0 wait states (Models 50-031 and -061) Optional: IBM 80287 Math Co-Processor (10 MHz)
<b>Permanent memory (ROM)</b>	128KB standard
<b>Memory (RAM)</b>	1MB standard, expandable to 16MB with memory expansion options
<b>Integrated functions</b>	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar
<b>System expansion</b>	Three available expansion slots
<b>Operating systems</b>	DOS 3.30, IBM Operating System/2™
<b>Storage</b>	Model 50-021: one 1.44MB 3.5-inch diskette drive and a 20MB fixed disk standard Model 50-031: one 1.44MB 3.5-inch diskette drive and a 30MB fixed disk standard Model 50-061: one 1.44MB 3.5-inch diskette drive and a 60MB fixed disk standard Optional: either a second 1.44MB diskette drive or IBM 5.25" External Diskette Drive; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive, IBM Personal System/2 60MB Fixed Disk Drive
<b>Text/graphics support</b>	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
<b>Keyboard</b>	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable
<b>Supported displays</b>	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
<b>Supported printers</b>	IBM Proprinter family, IBM Quietwriter printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
<b>Communications support</b>	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2
<b>Power supply</b>	94-watt worldwide autosensing and autoswitching
<b>Size</b>	Approx. 5.5" H x 14" W x 16" D (140mm x 360mm x 420mm); 21 lbs. (9 kg)

Feature	Function	Benefit
<b>Intel 80286 microprocessor</b>	Processes data at a clock speed of 10 MHz	Enhanced performance contributing to greater system throughput
<b>Zero wait states</b>	Give processor instant access to information from memory	Faster, more efficient personal computing with Models 50-031 and -061
<b>128KB of permanent memory</b>	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
<b>1MB of memory (RAM), expandable to 16MB with expansion options</b>	Provides electronic workspace for programs and files, and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking
<b>Micro Channel™ architecture</b>	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
<b>Integrated functions and streamlined design</b>	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
<b>Internal fixed disk drives</b>	Provide 20MB, 30MB or 60MB of storage for up to 10,000, 15,000 or 30,000 pages <sup>2</sup> of information; 27ms or 39ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
<b>1.44MB 3.5-inch diskette drive</b>	Stores up to 720 pages <sup>2</sup> of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>Built-in VGA capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome); support for new modes of display	High-quality, high-detail graphics and text; improved on-screen readability
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>Network and host emulation capabilities</b>	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360KB diskettes
<b>200MB optical disk drive option</b>	Writes once, reads many times; holds up to 100,000 pages <sup>2</sup> of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
<b>Tape drive option</b>	Saves/restores data for using systems	Fast, convenient save/restore and data exchange between systems
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

# Model 60

60-041 and -071

## At a glance

<b>Microprocessor</b>	80286, 10 MHz, 1 wait state Optional: IBM 80287 Math Co-Processor (10 MHz)
<b>Permanent memory (ROM)</b>	128KB standard
<b>Memory (RAM)</b>	1MB standard, expandable to 16MB with memory expansion options
<b>Integrated functions</b>	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar
<b>System expansion</b>	Seven available expansion slots
<b>Operating systems</b>	DOS 3.30, IBM Operating System/2
<b>Storage</b>	Model 60-041: one 1.44MB 3.5-inch diskette drive and a 44MB fixed disk standard; additional 44MB fixed disk optional Model 60-071: one 1.44MB 3.5-inch diskette drive and a 70MB fixed disk standard; additional 70MB or 115MB fixed disk optional Also optional: either a second 1.44MB diskette drive or IBM 5.25" External Diskette Drive; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
<b>Text/graphics support</b>	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
<b>Keyboard</b>	101 keys, including 12 function keys, 3 lighted mode indicators; 9-foot coiled cable
<b>Supported displays</b>	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
<b>Supported printers</b>	IBM Proprinter family, IBM Quietwriter printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
<b>Communications support</b>	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2
<b>Power supply</b>	207-watt worldwide autosensing and autoswitching
<b>Size</b>	Approx. 23.5" H x 6.5" W x 19" D (597mm x 166mm x 482mm); 47 lbs. (21 kg)

Feature	Function	Benefit
<b>Intel 80286 microprocessor</b>	Processes data at a clock speed of 10 MHz	Enhanced performance contributing to greater system throughput
<b>128KB of permanent memory</b>	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
<b>1MB of memory (RAM), expandable to 16MB with memory expansion options</b>	Provides electronic workspace for programs and files, and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
<b>Micro Channel architecture</b>	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
<b>Integrated functions and streamlined design</b>	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
<b>Internal fixed disk drives</b>	Provide 44MB or 70MB of storage for up to 22,000 or 35,000 pages <sup>2</sup> of information, respectively; 40ms or 30ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
<b>1.44MB 3.5-inch diskette drive</b>	Stores up to 720 pages <sup>2</sup> of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>Built-in VGA capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved on-screen readability
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>Network and host emulation capabilities</b>	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360KB diskettes
<b>Fixed disk drive options</b>	Provide an additional 44MB, 70MB or 115MB of storage (based on model)	Easy expansion of fixed disk storage capability
<b>200MB optical disk drive option</b>	Writes once, reads many times; holds up to 100,000 pages <sup>2</sup> of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
<b>Tape drive option</b>	Saves/restores data for using systems	Fast, convenient save/restore and data exchange between systems
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service



# Model 70 386

70-E61, -121 and -A21

## At a glance

<b>Microprocessor</b>	80386, 16 MHz (Model 70-E61), 20 MHz (Model 70-121), or 25 MHz (Model 70-A21), 0-2 wait states <sup>3</sup> Optional: IBM 80387 Math Co-Processor (16 MHz on Model 70-E61, 20 MHz on Model 70-121, 25 MHz on Model 70-A21)
<b>Permanent memory (ROM)</b>	128KB standard
<b>Memory (RAM)<sup>4</sup></b>	Model 70-E61: 1MB of 100-nanosecond memory standard, expandable to 6MB on the system board and to 16MB with memory expansion options Models 70-121 and -A21: 2MB of 85-nanosecond (-121) or 80-nanosecond (-A21) memory standard, expandable to 6MB (-121) or 8MB (-A21) on the system board and to 16MB with memory expansion options
<b>Integrated functions</b>	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar
<b>System expansion</b>	Three available expansion slots (two 32-bit, one 16-bit)
<b>Operating systems</b>	DOS 3.30, IBM Operating System/2, AIX™ Personal System/2 <sup>5</sup>
<b>Storage</b>	Model 70-E61: one 1.44MB 3.5-inch diskette drive and a 60MB fixed disk Models 70-121 and -A21: one 1.44MB 3.5-inch diskette drive and a 120MB fixed disk Optional: either a second 1.44MB diskette drive or IBM 5.25" External Diskette Drive; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
<b>Text/graphics support</b>	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
<b>Keyboard</b>	101 keys, including 12 function keys, 3 lighted mode indicators, 9-foot coiled cable
<b>Supported displays</b>	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
<b>Supported printers</b>	IBM Proprinter family, IBM Quietwriter printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
<b>Communications support<sup>5</sup></b>	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2
<b>Power supply</b>	132-watt worldwide autosensing and autoswitching
<b>Size</b>	Approx. 5.5" H x 14.2" W x 16.5" D (140mm x 360mm x 420mm); 21 lbs. (9 kg)

Feature	Function	Benefit
<b>Intel 80386 microprocessor</b>	Processes data at a clock speed of 16 MHz (Model 70-E61) or 20 MHz (Model 70-121) or 25 MHz (Model 70-A21)	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
<b>64KB memory cache</b>	Stores frequently used data for the processor to access with zero wait states	Significant improvement in overall system performance
<b>128KB of permanent memory</b>	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
<b>1MB or 2MB of memory (RAM),<sup>4</sup> expandable to 16MB with memory expansion options</b>	Access rate of 80, 85 or 100 nanoseconds (based on model); provides electronic workspace for lengthy programs and files, and/or multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
<b>Micro Channel architecture</b>	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
<b>Integrated functions and streamlined design</b>	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
<b>Internal fixed disk drives</b>	Provide 60MB or 120MB of storage for up to 30,000 or 60,000 pages <sup>2</sup> of information, respectively; 27ms or 23ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
<b>1.44MB 3.5-inch diskette drive</b>	Stores up to 720 pages <sup>2</sup> of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>Built-in VGA capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved on-screen readability
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>Network and host emulation capabilities</b>	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360KB diskettes
<b>200MB optical disk drive option</b>	Writes once, reads many times; holds up to 100,000 pages <sup>2</sup> of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
<b>Tape drive option</b>	Saves/restores data for using systems	Fast, convenient save/restore and data exchange between systems
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service



# Model 80 386

80-041, -071, -111 and -311

## At a glance

<b>Microprocessor</b>	80386, 16 MHz, 1 wait state (Models 80-041 and -071) or 20 MHz, 0-2 wait states (Models 80-111 and -311) Optional: IBM 80387 Math Co-Processor (16 MHz on Models 80-041 and -071, 20 MHz on Models 80-111 and -311)
<b>Permanent memory (ROM)</b>	128KB standard
<b>Memory (RAM)<sup>4</sup></b>	1MB (Model 80-041) or 2MB (Models 80-071, -111 and -311) of 80-nanosecond memory standard, expandable to 16MB with memory expansion options
<b>Integrated functions</b>	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar
<b>System expansion</b>	Seven available expansion slots (three 32-bit, four 16-bit)
<b>Operating systems</b>	DOS 3.30, IBM Operating System/2, AIX Personal System/2
<b>Storage</b>	Model 80-041: one 1.44MB 3.5-inch diskette drive and a 44MB fixed disk standard; additional 44MB fixed disk optional Model 80-071: one 1.44MB 3.5-inch diskette drive and a 70MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-111: one 1.44MB 3.5-inch diskette drive and a 115MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Model 80-311: one 1.44MB 3.5-inch diskette drive and a 314MB fixed disk standard; additional 70MB, 115MB or 314MB fixed disk optional Also optional: either a second 1.44MB diskette drive or IBM 5.25" External Diskette Drive; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
<b>Text/graphics support</b>	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
<b>Display modes</b>	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
<b>Keyboard</b>	101 keys, including 12 function keys, 3 lighted mode indicators; 9-foot coiled cable
<b>Supported displays</b>	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Display 8503
<b>Supported printers</b>	IBM Proprinter family, IBM Quietwriter printers, IBM Wheelprinters, IBM Pageprinter, IBM Color Jetprinter
<b>Communications support</b>	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiprotocol/2
<b>Power supply</b>	225-watt worldwide autosensing and autoswitching
<b>Size</b>	Approx. 23.5" H x 6.5" W x 19" D (597mm x 166mm x 482mm); 52 lbs. (23 kg)

Feature	Function	Benefit
<b>Intel 80386 microprocessor</b>	Processes data at a clock speed of 16 MHz (Models 80-041 and 071) or 20 MHz (Models 80-111 and -311)	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
<b>128KB of permanent memory</b>	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
<b>1MB or 2MB of memory (RAM), expandable to 16MB with memory expansion options</b>	Access rate of 80 nanoseconds; provides electronic workspace for lengthy programs and files, and/or multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
<b>Micro Channel architecture</b>	Delivers rapid processing and throughput	Fast, efficient, balanced system performance; foundation for future growth
<b>Integrated functions and streamlined design</b>	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
<b>Internal fixed disk drives</b>	Provide 44MB, 70MB, 115MB or 314MB of storage for up to 22,000, 35,000, 56,000 or 155,000 pages <sup>2</sup> of information, respectively; 40ms, 30ms, 28ms or 23ms average access (based on model); user-selectable cache software disk memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
<b>1.44MB 3.5-inch diskette drive</b>	Stores up to 720 pages <sup>2</sup> of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
<b>3.5-inch diskettes</b>	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
<b>Built-in VGA capabilities</b>	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved on-screen readability
<b>IBM PS/2 Enhanced Keyboard</b>	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
<b>Network and host emulation capabilities</b>	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
<b>5.25-inch external diskette drive option</b>	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360KB diskettes
<b>Fixed disk drive options</b>	Provide an additional 44MB, 70MB, 115MB or 314MB of storage (based on model)	Easy expansion of fixed disk storage capability
<b>200MB optical disk drive option</b>	Writes once, reads many times; holds up to 100,000 pages <sup>2</sup> of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
<b>Tape drive option</b>	Saves/restores data for using systems	Fast, convenient save/restore and data exchange between systems
<b>IBM support and service</b>	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service



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<sup>1</sup> Supplies power to both system and display.

<sup>2</sup> 8½ x 11-inch, double-spaced typewritten pages.

<sup>3</sup> Except -A21 with 64KB of memory cache.

<sup>4</sup> 128KB of this memory is reserved for hardware system  
use only on Models 70 386, 80-111 and 80-311.

<sup>5</sup> Compatibility test results forthcoming for Model 70-A21.



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